

CLAIMS

What is claimed is:

1. A storage device for optical media, comprising:
a body defining an upper surface;
a plurality of adjacent slots formed in said upper surface of said body
that extend in a first direction from said upper surface and that define upper guiding
cavities and lower engaging cavities, wherein said upper guiding cavities guide
optical media into said lower engaging cavities, which have openings to said upper
cavities,
wherein said lower engaging cavities engage lower arcuate portions of
said optical media.

2. The storage device of Claim 1 wherein said lower engaging cavities
independently support said optical media in said adjacent slots in a parallel
relationship when said storage device is located on a flat supporting surface.

3. The storage device of Claim 1 wherein said lower engaging cavities
have a trapezoidal-shaped cross section.

4. The storage device of Claim 1 wherein said plurality of slots are
generally parallel to each other.

5. The storage device of Claim 1 wherein a first width of said upper guiding cavities generally decreases with a depth of said upper guiding cavities.

6. The storage device of Claim 1 wherein a second width of said lower engaging cavities generally decreases with a depth of said lower engaging cavities.

7. The storage device of Claim 3 wherein a third width of said lower engaging cavities adjacent to said opening is greater than a fourth width adjacent to a bottom surface of said lower engaging cavities.

8. The storage device of Claim 7 wherein said fourth width is between 1.25mm and 1.5mm.

9. The storage device of Claim 1 wherein said slots are spaced at a fifth width that is greater than 10mm and less than 25 mm.

10. The storage device of Claim 1 wherein said upper cavities have a generally "U"-shaped cross section.

11. The storage device of Claim 1 wherein said optical media includes at least one of compact discs and digital versatile discs.

12. The storage device of Claim 1 wherein opposite sides of said body include a generally "C"-shaped recess.

13. The storage device of Claim 2 wherein opposite side walls of said trapezoidal-shaped cavities are sloped at an angle that is greater than 0° relative to a line that is perpendicular to the flat supporting surface.

14. The storage device of Claim 1 wherein said lower engaging cavities have a depth that is between 10mm and 14 mm at a center of said body and wherein said depth decreases towards opposite sides of said body.

15. A storage device for optical media, comprising:

a body defining an upper surface, end surfaces and side surfaces; and
a plurality of adjacent slots that are formed in said upper surface of
said body that include upper cavities having generally "U"-shaped cross sections
and lower cavities having generally trapezoidal-shaped cross sections,

wherein a first width of said upper cavities decreases with a depth of
said slots, a second width of said lower cavities decreases with a depth of said slots,
and said lower cavities engage one of "C"-shaped and "D"-shaped arcuate portions
of said optical media, and

wherein said lower cavities independently support said optical media
when said storage device is located on a flat supporting surface.

16. The storage device of Claim 15 wherein said lower cavities have a
third width adjacent to an upper opening thereof that is greater than a fourth width
adjacent to a bottom surface of said lower cavities.

17. The storage device of Claim 15 wherein said optical media includes at
least one of compact discs and digital versatile discs.

18. The storage device of Claim 15 wherein opposite sides of said body
include a generally "C"-shaped recess.

19. The storage device of Claim 15 wherein opposite side walls of said trapezoidal-shaped cavities are sloped at an angle that is greater than 0° relative to a line that is perpendicular to the flat supporting surface.